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1701 **Comparison of Ethanol Septal Reduction Therapy With Surgical Myectomy for the Treatment of Hypertrophic Obstructive Cardiomyopathy** *Sherif F. Nagueh, Steve R. Ommen, Nasser M. Lakkis, Donna Killip, William A. Zoghbi, Hartzell V. Schaff, Gordon K. Danielson, Miguel A. Quiñones, A. J. Tajik, William H. Spencer III*

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1788 **Antioxidant Vitamins and the Risk of Carotid Atherosclerosis: The Perth Carotid Ultrasound Disease Assessment Study (CUDAS)** *Brendan M. McQuillan, Joseph Hung, John P. Beilby, Mark Nidorf, Peter L. Thompson*

1795 Editorial Comment **Do Antioxidant Vitamins Protect Against Atherosclerosis? The Proof Is Still Lacking** *Eva Lonn*

1799 **Optimization of Dietary Folate or Low-Dose Folic Acid Supplements Lower Homocysteine But Do Not Enhance Endothelial Function in Healthy Adults, Irrespective of the Methylenetetrahydrofolate Reductase (C677T) Genotype** *Catherine H. Pullin, Pauline A. L. Ashfield-Watt, Michael L. Burr, Zoë E. Clark, Malcolm J. Lewis, Stuart J. Moat, Robert G. Newcombe, Hilary J. Powers, Jenny M. Whiting, Ian F. W. McDowell*

1806 **The Effects of Lipid-Lowering and Antioxidant Vitamin Therapies on Flow-Mediated Vasodilation of the Brachial Artery in Older Adults With Hypercholesterolemia** *James H. Stein, Cynthia M. Carlsson, Kristi Papcke-Benson, Susan E. Aeschlimann, Apple Bodemer, Molly Carnes, Patrick E. McBride*

1814 **Cardiovascular Risk Factors as Determinants of Endothelium-Dependent and Endothelium-Independent Vascular Reactivity in the General Population** *N. Norman Chan, Helen M. Colhoun, Patrick Vallance*

1821 **Coronary Endothelial Dysfunction in the Insulin-Resistant State Is Linked to Abnormal Pteridine Metabolism and Vascular Oxidative Stress** *Kazuya Shinozaki, Atsushi Hirayama, Yoshihiko Nishio, Yuichi Yoshida, Tomohito Ohtani, Tomio Okamura, Masahiro Masada, Ryuichi Kikkawa, Kazuhisa Kodama, Atsunori Kashiwagi*

1829 **Left Ventricular Mass and Cardiovascular Morbidity in Essential Hypertension: The MAVI Study** *Paolo Verdecchia, Giancarlo Carini, Antonio Circo, Emilio Dovellini, Ezio Giovannini, Michele Lombardo, Pasquale Solinas, Marco Gorini, Aldo Pietro Maggioni, and the MAVI Study Group*

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1843 **Peripheral Vascular Endothelial Function Testing as a Noninvasive Indicator of Coronary Artery Disease** *Jeffrey T. Kuvin, Ayan R. Patel, Kathleen A. Sliney, Natesa G. Pandian, William M. Rand, James E. Udelson, Richard H. Karas*

1850 **Uric Acid Is Closely Linked to Vascular Nitric Oxide Activity: Evidence for Mechanism of Association With Cardiovascular Disease** *Andrew J. Maxwell, Kristen A. Bruinsma*

1859 **The Relationship Between Vascular Wall Shear Stress and Flow-Mediated Dilation: Endothelial Function Assessed by Phase-Contrast Magnetic Resonance Angiography** *Harry A. Silber, David A. Bluemke, Pamela Ouyang, Yiping P. Du, Wendy S. Post, Joao A. C. Lima*

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1872 **Frequency Distribution of Collateral Flow and Factors Influencing Collateral Channel Development: Functional Collateral Channel Measurement in 450 Patients With Coronary Artery Disease** *Tilmann Pohl, Christian Seiler, Michael Billinger, Evigna Herren, Kerstin Wustmann, Haresh Mehta, Stephan Windecker, Franz R. Eberli, Bernhard Meier*

1879 **Modulation of Coronary Flow Velocity Reserve by Gender, Menstrual Cycle and Hormone Replacement Therapy** *Kumiko Hirata, Kenei Shimaaa, Hiroyuki Watanabe, Takashi Muro, Minoru Yoshiyama, Kazuhide Takeuchi, Takeshi Hozumi, Junichi Yoshikawa*

1885 Editorial Comment **Coronary Flow: How Far Can We Go With Echocardiography?** *Paolo Voci, Francesco Pizzuto*

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1888 **Significance of Reduced Uptake of Iodinated Fatty Acid Analogue for the Evaluation of Patients With Acute Chest Pain** *Yuko Kawai, Eriko Tsukamoto, Yoichi Nozaki, Koichi Morita, Masayuki Sakurai, Nagara Tamaki*

1895 **Increased Production of Inflammatory Cytokines in Patients With Silent Myocardial Ischemia** *Antonino Mazzone, Chiara Cusa, Iolanda Mazzucchelli, Monia Vezzoli, Elena Ottini, Roberta Pacifici, Piergiorgio Zuccaro, Colomba Falcone*

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1902 **Utility of Current Risk Stratification Tests for Predicting Major Arrhythmic Events After Myocardial Infarction** *James J. Bailey, Alan S. Berson, Harry Handelsman, Morrison Hodges*

1912 Editorial Comment **Risk Stratification for Arrhythmic Events: Are the Bangs Worth the Bucks?** *Mark J. Eisenberg*

1916 **The Healing Process of Infarct-Related Plaques: Insights From 18 Months of Serial Angioscopic Follow-Up** *Yasunori Ueda, Masanori Asakura, Osamu Yamaguchi, Atsushi Hirayama, Masatsugu Hori, Kazuhisa Kodama*

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1923 **The Role of Hospital Volume in Coronary Artery Bypass Grafting: Is More Always Better?** *Brahmajee K. Nallamothu, Sanjay Saint, Scott D. Ramsey, Timothy P. Hofer, Sandeep Vijan, Kim A. Eagle*

1931 Editorial Comment **Better for Whom? Policy Implications of Acting on the Relation Between Volume and Outcome in Coronary Artery Bypass Grafting** *Harold S. Luft*

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1934 **Role of Brain Natriuretic Peptide in Risk Stratification of Patients With Congestive Heart Failure** *Jörg Koglin, Sinan Pehlivanli, Martin Schwaiblmair, Michael Vogeser, Peter Cremer, Wolfgang von Scheidt*

1942 **Decreased Plasma Concentration of Brain Natriuretic Peptide as a Potential Indicator of Cardiac Recovery in Patients Supported by Mechanical Circulatory Assist Systems** *Ralf Sodian, Matthias Loebe, Christoph Schmitt, Evgenij V. Potapov, Henryk Siniawski, Johannes Müller, Harald Hausmann, Heinz R. Zurbruegg, Yuguo Weng, Roland Hetzer*

1950 **Aspirin Impairs Reverse Myocardial Remodeling in Patients With Heart Failure Treated With Beta-Blockers** *JoAnn Lindenfeld, Alastair D. Robertson, Brian D. Lowes, Michael R. Bristow, for the MOCHA Investigators*

1957 **Impact of Cardiac Resynchronization Therapy Using Hemodynamically Optimized Pacing on Left Ventricular Remodeling in Patients With Congestive Heart Failure and Ventricular Conduction Disturbances** *Christoph Stellbrink, Ole-Alexander Breithardt, Andreas Franke, Stefan Sack, Patricia Bakker, Angelo Auricchio, on behalf of the PATH-CHF Investigators, Theirry Pochet, Rod Salo, Andrew Kramer, Julio Spinelli, on behalf of the CPI Guidant Congestive Heart Failure Research Group*

1966 **Long-Term Left Ventricular Pacing: Assessment and Comparison With Biventricular Pacing in Patients With Severe Congestive Heart Failure** *Abdelkader Touiza, Yves Etienne, Martine Gilard, Marjaneh Fatemi, Jacques Mansourati, Jean-Jacques Blanc*

1971 Editorial Comment **Cardiac Resynchronization: A Cornerstone in the Foundation of Device Therapy in Heart Failure** *Leslie A. Saxon, Teresa De Marco*

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1974 **The Exercise Test That Indicates a Low Risk of Events: Differences in Prognostic Significance Between Patients With Chronic Stable Angina and Patients With Unstable Angina** *Rafael Florenciano-Sánchez, Juan A. Castillo-Moreno, Eduardo Molina-Laborda, Manuel Jiménez-Pascual, Pedro García-Urruticoechea, Santiago Egea-Beneyto, José G. Sánchez-Villanueva, Juan Ortega-Bernal*

1980 **Heart Rate Recovery: Validation and Methodologic Issues** *Katerina Shetler, Rachel Marcus, Victor F. Froelicher, Shefali Vora, Damayanthi Kalisetti, Manish Prakash, Dat Do, Jon Myers*

VALVE DISEASE

1988 **Association of Mitral Annulus Calcification, Aortic Valve Sclerosis and Aortic Root Calcification With Abnormal Myocardial Perfusion Single Photon Emission Tomography in Subjects Age ≤65 Years Old** *Doo-Soo Jeon, Shaul Atar, Andrea V. Brasch, Huai Luo, James Mirocha, Tasneem Z. Naqvi, Robert Kraus, Daniel S. Berman, Robert J. Siegel*

HYPERTROPHIC CARDIOMYOPATHY

1994 **Outcome of Patients With Hypertrophic Obstructive Cardiomyopathy After Percutaneous Transluminal Septal Myocardial Ablation and Septal Myectomy Surgery** *Jian Xin Qin, Takahiro Shiota, Harry M. Lever, Samir R. Kapadia, Marta Sitges, David N. Rubin, Fabrice Bauer, Neil L. Greenberg, Deborah A. Agler, Jeanne K. Drinko, Maureen Martin, E. Murat Tuzcu, Nicholas G. Smedira, Bruce Lytle, James D. Thomas*

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2001 **Impact of Pre-interventional Arterial Remodeling on Subsequent Vessel Behavior After Balloon Angioplasty: A Serial Intravascular Ultrasound Study** *Hiroyuki Okura, Motoya Hayase, Shinichi Shimodozono, Heidi N. Bonneau, Paul G. Yock, Peter J. Fitzgerald*

2006 **Statin Therapy, Inflammation and Recurrent Coronary Events in Patients Following Coronary Stent Implantation** *Dirk H. Walter, Stephan Fichtlscherer, Martina B. Britten, Patrick Rosin, Wolfgang Auch-Schwelk, Volker Schächinger, Andreas M. Zeiher*

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2013 **Effect of Metoprolol and *d,l*-Sotalol on Microvolt-Level T-Wave Alternans: Results of a Prospective, Double-Blind, Randomized Study** *Thomas Klingenheben, Gerian Grönefeld, Yi-Gang Li, Stefan H. Hohnloser*

2020 **Electroanatomic Mapping of Arrhythmogenic Right Ventricular Dysplasia** *Munther Boulos, Ilan Lashevsky, Shimon Reisner, Lior Gepstein*

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2028 **Noninvasive Single-Beat Determination of Left Ventricular End-Systolic Elastance in Humans** *Chen-Huan Chen, Barry Fetics, Erez Nevo, Carlos E. Rochitte, Kuan-Rau Chiou, Phillip Yu-An Ding, Miho Kawaguchi, David A. Kass*

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2035 **Surgical Treatment for Secundum Atrial Septal Defects in Patients >40 Years Old: A Randomized Clinical Trial** *Fause Attie, Martín Rosas, Nuria Granados, Carlos Zabal, Alfonso Buendía, Juan Calderón*

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2043 **Adrenergic Nervous Activity in Patients After Surgical Correction of Tetralogy of Fallot** *Luciano Daliento, Antonio Franco Folino, Liana Menti, Pierluigi Zanco, Maria Cristina Baratella, Sergio Dalla Volta*

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